

PROJECT DESCRIPTION

I. GENERAL

This project involves the reconstruction of an existing Traffic Control Signal with interconnect at the intersection of MD 528 (Coastal Hwy.) and 48th Street in Ocean City, Worcester County. The existing interconnect cable to the north shall be pulled back and rerouted into the proposed cabinet. The proposed interconnect south to 45th Street is being installed as part of the MD 528 @ 45th Street project. MD 528 is assumed to run in a north-south direction.

II. INTERSECTION OPERATION

- The intersection will continue to operate in a NEMA six-phase, semi-traffic-actuated mode. Video detector cameras shall now provide the actuation. The MD 528 approaches shall continue running concurrently with Exclusive/Permissive left turns. A pedestrian phase with pushbutton actuation shall be provided across the south leg of MD 528 (Coastal Hwy.). The pedestrian phase across the north leg of the intersection shall remain in operation. The 48th Street approaches shall remain concurrent.
- A full-traffic-actuated, eight-phase ASC'S II controller with all necessary equipment housed in a NEMA size "6" base-mounted cabinet shall be installed at this intersection.

III. SPECIAL NOTES

- The existing traffic signals shall be turned off and removed prior to the installation of the proposed equipment. The proposed equipment shall be installed in some of the locations of the existing equipment.
- All field wiring to the existing controller cabinet shall be disconnected by the contractor. Mr. Ed Rodenhizer (SHA Signal Shop) shall be contacted at 410-787-7650, seventy-two hours in advance of intended work. The controller and associated equipment shall be removed by the Signal Shop personnel.
- The sprinkler system cabinet shall be relocated by others at the intersection of 48th Street. The contractor shall contact Ocean City's Recreation and Parks.

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY S.H.A..

ITEM NO.	DESCRIPTION	QUANTITY
9081	Eight-phase, full-traffic actuated, solid state digital controller with ASCII II and all necessary equipment and harnesses housed in a NEMA size "6" base-mounted cabinet.	1 EA
9089	Sheet aluminum signs to consist of: R10-12 "LEFT TURN YIELD ON GREEN (BALL)" sign, (36" x 42") mast arm mounted. R3-17 mod "RIGHT LANE, BUSES AND, RIGHT, TURNS, ONLY" sign (30" x 42") mast arm mounted. R9-1 mod "YIELD TO PED" sign, (48" x 48") mast arm mounted.	70.5 SF 2 EA 2 EA
9090	Sheet aluminum signs to consist of: (Blue or Green) D3-2 "Coastal HWY" sign, (variable x 16") mast arm mounted. D3-2 "48th Street (arrow) / (arrow) 48th Street" dual faced sign (variable x 16") mast arm mounted.	37 SF 2 EA 2 EA

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

ITEM NO.	DESCRIPTION	QUANTITY
1001	Maintenance of traffic per assignment.	3 EA
2001	Class 2 Excavation.	19 C.Y.
2002	Test Pit Excavation	5 C.Y.
5004	12" white heat applied permanent preformed thermoplastic pavement marking.	770 L.F.
6001	Furnish and install depressed curb and gutter.	15 L.F.
6004	4" concrete sidewalk.	570 S.F.
8001	Pre-manufactured camera to controller (250' length) cable	2 EA
8003	Pre-manufactured camera to controller (500' length) cable	2 EA
8010	Furnish and install 12" pedestrian signal head section	8 EA
8011	Furnish and install 12" vehicular traffic signal head section	32 EA
8015	Furnish and install 3" weatherhead.	2 EA
8019	Furnish and install 8" vehicular traffic signal head section.	9 EA

EQUIPMENT LIST (CONT.)

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

ITEM NO.	DESCRIPTION	QUANTITY
8020	Furnish and install control and distribution equipment (120/240 V, 1 phase 3 wire system).	1 EA
8030	Furnish and install breakaway pedestal pole (10').	2 EA
8032	Pedestrian pushbutton and R10-4(1) sign. (Note: Sign to read "PUSHBUTTON TO CROSS COASTAL HWY.")	4 EA
8037	Furnish and install 18' special steel pole with twin 60'/50' mast arm (60' arm has 15' T and 50' arm has 16.5' T).	2 EA
8047	Remove and dispose of existing foundation 12" below grade.	2 EA
8048	Remove and dispose of existing material and equipment per assignment.	1 EA
8049	Furnish and install video detector camera.	4 EA
8050	Furnish and install video detection interface equipment.	1 EA
8051	Furnish and install 3" schedule 80 rigid polyvinyl chloride conduit - trenching	1 45 80 L.F.
8053	Furnish and install 4" schedule 80 rigid polyvinyl chloride conduit - trenching.	55 L.F.
8057	Furnish and install concrete for signal foundation.	14 C.Y.
8060	Furnish and install No. 6 AWG stranded bare copper ground wire.	535 L.F.
8067	Furnish and install 4" schedule 80 rigid polyvinyl chloride conduit - slotted.	1 220 325 L.F.
8070	Furnish and install electrical cable 1-conductor No. 4 AWG THHN/THWN.	40 L.F.
8072	Furnish and install electrical handhole.	1 5 EA
8075	Install overhead sign.	107.5 S.F.
8080	Furnish and install ground rod - 3/4" x 10'.	4 EA
8082	Furnish and install electrical cable - 2 conductor (No. 14 AWG).	450 L.F.
8083	Furnish and install electrical cable - 3 conductor (No. 14 AWG).	465 L.F.
8084	Furnish and install electrical cable - 5 conductor (No. 14 AWG).	160 L.F.
8085	Furnish and install electrical cable - 7 conductor (No. 14 AWG).	1330 L.F.
8091	Furnish and install 2" schedule 80 rigid polyvinyl chloride - trenching	15 L.F.
8093	Install controller and cabinet base mount.	1 EA
Neg.	Remove and replace brick pavers for the installation of signal equipment.	35 S.F.
Neg.	Pull back and reroute existing I/C cable.	240 L.F.
Neg.	Furnish and install 2" 1 electrical conduit - polyvinyl chloride riser.	30 L.F.
Neg.	Remove and dispose of existing foundation 48" below grade.	2 EA

C. EQUIPMENT TO BE REMOVED.

SHA Forces shall remove the controller and all auxiliary equipment from the controller cabinet. The cabinet and all other materials to be removed by the contractor shall become the property of the contractor.

The following contact persons for District #1 are as follows:

Mr. Donnie L. Drewer
District Engineer
Phone: (410) 677-4006

Mr. Gene Cofield
Assistant District Engineer - Traffic
Phone: (410) 677-4040

Mr. Jimmy Wright
Assistant District Engineer - Maintenance
Phone: (410) 543-6715

Mr. Bruce Poole
Assistant District Engineer - Utility
Phone: (410) 677-4082

Mr. Richard L. Daff, Sr.
Chief, Traffic Operations Division
Phone: (410) 787-7630

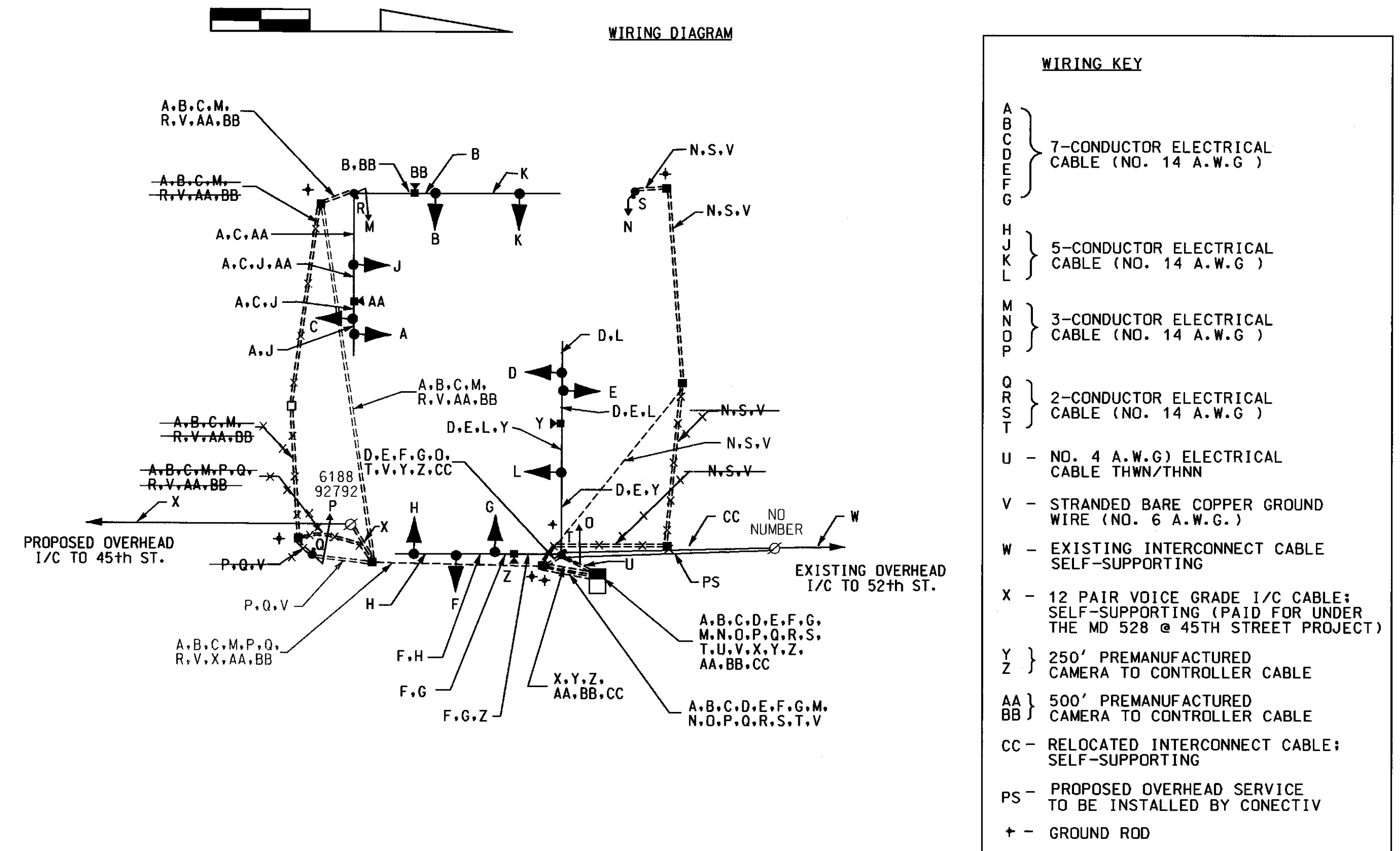
The power company representative is:

Connectiv Power
Mr. Wade Willy, Customer Engineer
P.O. Box 1739
Salisbury, Maryland 21802-1739
1-410-860-6380

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
PHASE 1 & 5	←G-R	←G-R	R	←G-R	←G-R	R	R	R	R	R	R	DW	DW	DW	DW
CHANGES TO PHASES 1 & 6, 2 & 5 OR 2 & 6															
PHASE 1 & 6	←G-G	←G-G	G	R	R	R	R	R	R	R	R	DW	DW	DW	DW
1 & 6 CHANGE	←Y-G	←Y-G	G	R	R	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 2 & 5	R	R	R	←G-G	←G-G	G	R	R	R	R	R	DW	DW	DW	DW
2 & 5 CHANGE	R	R	R	←Y-G	←Y-G	G	R	R	R	R	R	DW	DW	DW	DW
PHASE 2 & 6	G	G	G	G	G	G	R	R	R	R	R	DW	DW	DW	DW
2 & 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	DW	DW	DW	DW
PHASE 4 & 8	R	R	R	R	R	R	G	G	G	G	G	DW	DW	DW	DW
4 & 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	DW	DW	DW	DW
PHASE 4 & 8 ALT	R	R	R	R	R	R	G	G	G	G	G	WK	WK	WK	WK
PED CLEARANCE	R	R	R	R	R	R	G	G	G	G	G	FL/DW	FL/DW	FL/DW	FL/DW
4 & 8 ALT CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	DW	DW	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK

MD 528 AT 48th STREET



1 REDLINE REVISION 10/4/03



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION

MD 528 (COASTAL HWY) AND 48th STREET

GENERAL INFORMATION SHEET

DRAWN BY: EMM	F.A.P. NO. S.H.A. NO. XX 1065185	TS NO. 1859 C	SHEET NO. 2 OF 2
CHECKED BY: RRZ	COUNTY: WORCESTER	T.I.M.S. NO. F 230	
SCALE: NONE	LOG MILE:		
DATE: 10-22-01			